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# EG&G ROCKY FLATS



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EG&G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

March 9, 1994

94-RF-02866

Jessie M. Roberson  
Acting Assistant Manager for  
Environmental Restoration  
DOE, RFO

## SITEWIDE TREATABILITY STUDIES PLAN PROGRAM (STSP) - SGS-167-94

Ref: J. M. Roberson ltr (02383) to S. G. Stiger, Sitewide Treatability Studies Plan Program,  
March 7, 1994

EG&G Rocky Flats, Inc. has reviewed the Department of Energy Rocky Flats Office (DOE, RFO) letter of March 7, 1994, requesting an explicit commitment from EG&G Rocky Flats for (1) completing specific treatability studies by November 12, 1994, (2) timely completion of setup of the 881 Sitewide Treatability Studies Program (STSP) laboratory and (3) a plan to improve communications with Environmental Protection Agency (EPA) and Colorado Department of Health (CDH) on the STSP.

EG&G Rocky Flats is committed to the timely completion of the eight treatability studies requested by EPA and CDH in their letter of February 18, 1994 (attached). These treatability studies are required to support the remedy selection for OUs 1, 2, 3, 5, and 6. EPA and CDH requested that the following treatability studies be completed by the referenced date:

- Magnetic Separation
- Chemically Enhanced Steam Stripping
- Solvent Extraction
- Physical Separation
- Adsorption
- Ion Exchange
- TRU-Clear
- Bioremediation
- Solidification/Stabilization Workplan

EG&G Rocky Flats prepared the attached Table 6-1 for the Annual Treatability Studies Report that will be issued March 14, 1994. This table lists the status of each of the treatability study programs. As indicated in the table, the majority of the treatability studies will be completed (i.e. bench-scale testing will be complete and preliminary results reviewed with the Agencies) by the November 12, 1994 date.

The exceptions to this date follow:

- Chemically Enhanced Steam Stripping (CESS) will be conducted at Los Alamos National Laboratory (LANL). The target date for completion is November 12, 1994. A final date will be negotiated with LANL during contract negotiations.

- Solvent Extraction requires a "hot laboratory". EG&G and DOE/RFO are currently auditing four laboratories in the Denver/Fort Collins area which have an applicable Colorado Department of Public Health Radioactive Materials license. Should the laboratories not require upgrading, the test program will be completed by November 12, 1994.

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NN, H. P.	✓	✓
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LOCK, G. H.		
EWART, D. L.		
GER, S. G.	✓	✓
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ANT, R. B.		
M. ANDERSON	✓	✓
E. LEVIN	✓	✓
FRICH	✓	✓
K. HAPKINS	✓	✓
M. COWEN	✓	✓
YES CONTROL	X	X
MIN RECORD	✓	
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Jessie M. Roberson  
March 9, 1994  
94-RF-02866  
Page 2

The setup of the treatability studies laboratory in Building 881 is underway ( i.e. utility service for the ICP/MS equipment). The initial material was delivered to Building 881 on March 7, 1994. A "pre-evolution" evaluation was conducted on March 8, 1994, at which time any material deficiencies were identified and craft worker sequence was scheduled. Maintenance Planning and Scheduling (MP&S) will complete their schedule by March 11, 1994. Technology Development has tentatively scheduled the ICP/MS equipment vendor to complete final calibration and operational checkout of the equipment. This schedule will be confirmed the week of March 14, 1994, based on the MP&S schedule.

In order to improve communications, DOE/RFO and EG&G met with EPA and CDH and agreed to continue to hold quarterly meetings to present and discuss the status of various studies, as well as provide weekly highlights and/or monthly summaries of programs. In addition, when significant events affect current schedules, formal notification will take place requesting schedule extensions per Part 42 (Extensions) of the Interagency Agreement (IAG).

If you have any questions, please direct them to John Hopkins of Environmental Engineering & Technology at extension 8636.



S. G. Stiger  
Associate General Manager  
Environmental Restoration Management  
EG&G Rocky Flats, Inc.

JKH:cb

Orig. and 1 cc - J. M. Roberson

Attachments:  
As Stated

cc:

A.	Rampertaap	- DOE, RFO
R.	J. Schassburger	- DOE, RFO
M.	N. Silverman	- DOE, RFO
L.	W. Smith	- DOE, RFO

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TABLE 6-1

## SUBMITTAL DATES AND PROJECT SCHEDULE

Treatability Study	Workplan to RFO	Workplan to Agencies	Agency Approval of Workplans	Testing	Report to RFO		Report to Agencies	Comments
					Completed			
STATUS								
Soil Washing-NRT *	Jul-92	Jul-92	Yes	Aug-93	16-May-94	30-May-94		Revised schedule will be submitted after contract negotiation is completed.
TRUclean**	Nov-91	Feb-92	Feb-93	Sep-93	15-Apr-94	29-Apr-94		
EPA SITE Demo	N/A	N/A	N/A	Sep-93		3-Oct-94		Document to be issued by EPA SITE Program.
Plasma Melter	N/A	N/A	N/A	Jan-94	30-May-94	13-Jun-94		
Adsorption *	Jun-93	Yes	Yes	Jul-94	11-Oct-94	25-Oct-94		
Ion Exchange *	Jun-93	Yes	Yes	Aug-94	11-Oct-94	25-Oct-94		
TRUclear *	Feb-94	Open	Open	Aug-94	27-Oct-94	10-Nov-94		
Magnetic Separation *	Nov-91	Nov-91	Yes	Jul-94	1-Jul-94	15-Jul-94		
Chemically Enhanced Steam Stripping	Mar-94	Open	Open	Oct-94	21-Nov-94	8-Dec-94		Phase 1 (FY 94) Report.
Bioremediation	Mar-94	Open	Open	Sep-94	17-Nov-94	1-Dec-94		Phase I and II.
Solvent Extraction	Jul-94**	Open	Open	Oct-94	24-Nov-94	8-Dec-94		Schedule being developed.
Physical Separation	Nov-91	Feb-92	Feb-93					Samples from TRUclean* to be resubmitted for metals analysis.
Stabilization/Solidification	Sep-94							Workplan to cover four studies.
Oxidation/Reduction *	Dec-91	Jan-92	Open	1995	2-May-94	16-May-94		Revised Workplan to DOE/RFO - Aug-94.
Ultra/Microfiltration *	N/A	N/A	N/A	1993	Yearly			Report to be issued by the USGS to DOE.
Rad Discharge Control	Sep-91	Yes	Yes	Yearly				Phase III completed in Sep-94; results presented in Annual TS Report.
Soil Washing - LANL	N/A	N/A	N/A	1993	21-Mar-94	4-Apr-94		
Solar Detoxification	May-94	Open	Open	Apr-95	17-Jul-95	31-Jul-95		
* Original 13 T.S.								
** Tentative Date								
OUTSTANDING ISSUES								
a) Plasma Melter - Issuance of EG&G Rocky Flats report to DOE/RFO delayed until approximately May 1994 when EG&G Idaho completes proprietary evaluation of Lockheed technology report for Pit 9 remediation program expected in April 1994.								
NOTE: This schedule is a draft schedule. DOE/RFO, EPA, and CDH are negotiating the schedule for these treatability studies.								